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NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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Form C-105
Revised 11-1-68

1. Indicate Type of Lease	State ☒ Fee ☐
2. State of Lease No.	647-364

10. TYPE OF WELL	GIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐
11. TYPE OF COMPLETION	NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

3. Unit Agreement Name	Empire Abo Pressure Maintenance Project
4. Name of Lease Name	Empire Abo Unit "F"

2. Name of Operator	ARCO Oil and Gas Company ✓ Division of Atlantic Richfield Company
3. Address of Operator	Box 1710, Hobbs, New Mexico 88240

5. Well No.	336
12. Field and Pool, or Wildcat	Empire Abo

4. Location of Well	UNIT LETTER <u>E</u> LOCATED <u>2000</u> FEET FROM THE <u>North</u> LINE AND <u>1000</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>34</u> TWP. <u>17S</u> RGE. <u>28E</u>
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13. County	Eddy
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15. Date Spudded	5/24/79	16. Date T.D. Reached	6/6/79	17. Date Compl. (Ready to Prod.)	8/1/79	18. Elevations (DF, RKB, RT, GR, etc.)	3668.1' GR	19. Elev. Casinghead	
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20. Total Depth	6350'	21. Plug Back T.D.	6316'	22. If Multiple Compl., How Many		23. Intervals Drilled By	Rotary Tools	0-6350'	Cable Tools
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24. Producing Interval(s), of this completion - Top, Bottom, Name	6215'-6229' Abo Reef	25. Was Directional Survey Made	No
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26. Type Electric and Other Logs Run	GR-CNL-FDC, DLL-MLL w/RXO, CBL	27. Was Well Cored	No
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28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8" OD	24# K-55	750'	11"	350 sx	
5 1/2" OD	15.5# K-55	6350'	7-7/8"	1490 sx	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8" OD	6123'	6123'

31. Perforation Record (Interval, size and number)	6215-6229' = 2 JSPP (28 .44" holes)	
	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	1464' - 1090'	50 sx LWL cmt, 25 sx C1 C w/2% CaCl 125 sx LWL cmt, 75 sx C1 C cmt, 2% CaCl 75 sx C1 H Thik-set w/3% CaCl

33. PRODUCTION							
Date First Production	7/1/79	Production Method (Flowing, gas lift, pumping - Size)				Prod	
Date of Test	8/1/79	Hours Tested	24 hrs	Choke Size	-	Prod'n. Per Test Period	414
Flow Tubing Press.	3100# HP	Casing Pressure	Pkr	Calculated 24-Hour Rate	414	Oil - Bbl.	150
						Gas - MCF	1
						Water - Bbl.	362:1.
						Oil Gravity - API (Corr.)	44°

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Sold	Test Witnessed By	N. H. Truitt
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35. List of Attachments	Logs as listed in Item 26 above & Inclination Report.
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36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.	SIGNED <u>L. Por Lane</u>	TITLE <u>Dist. Drlg. Supt.</u>	DATE <u>8/3/79</u>
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This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all pertinent and relevant logs run on the well and a summary of all special tests conducted, including drill stem tests. All logs reported shall be measured by tape. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, from 25' through 24' shall be reported for each zone. The form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Rindland-Fruitland	T. Penn. "C"
T. Salt	T. Aloka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Quartz
T. Glorieta	T. McKee	T. Base Greenhorn	T. Granite
T. Padlock	T. Ellenburger	T. Dakota	T. T.
T. Blinberry	T. Gr. Wash	T. Morrison	T. T.
T. Tubb	T. Granite	T. Todilto	T. T.
T. Drinkard	T. Delaware Sand	T. Entrada	T. T.
T. Abo	T. Bone Springs	T. Wingate	T. T.
T. Wolfcamp	T. T.	T. Chinle	T. T.
T. Penn.	T. T.	T. Permian	T. T.
T. Cisco (Bough C)	T. T.	T. Penn. "A"	T. T.

OIL OR GAS SANDS OR ZONES

No. 1, from	6215'	to	6229'	No. 4, from	to
No. 2, from	to	No. 5, from	to	No. 6, from	to
No. 3, from	to	No. 6, from	to	No. 7, from	to

IMPORTANT WATER SANDS

No. 1, from	to	Had water flow from braden	feet
No. 2, from	to	head while cmg. prod. csg. ARO	feet
No. 3, from	to	10 BPH. Depth of wtr flow	feet
No. 4, from	to	unknown.	feet

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness	Formation	From	To	Thickness	Formation
0	750	750	Surface, caliche, sand, red bed				
750	1288	538	Anhydrite				
1288	3150	1862	Anhydrite & lime				
3150	4768	1618	Lime & Anhydrite				
4768	5120	352	Lime				
5120	5365	245	Lime & Anhydrite				
5365	6350	985	Lime				